

Bridge Renovation and Preservation -- No. 509753

Category **Transportation**
 Agency **Public Works & Transportation**
 Planning Area **Countywide**
 Relocation Impact **None.**

Date Last Modified
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 Required Adequate Public Facility

July 12, 2001
 11-53 (01 App)
 NO

EXPENDITURE SCHEDULE (\$000)

Cost Element	Total	Thru FY00	Remain. FY00	Total 6 Years	FY01	FY02	FY03	FY04	FY05	FY06	Beyond 6 Years
Planning, Design and Supervision	182	0	62	120	20	20	20	20	20	20	0
Land	0	0	0	0	0	0	0	0	0	0	0
Site Improvements and Utilities	-22	0	-22	0	0	0	0	0	0	0	0
Construction	2,387	0	-13	2,400	400	400	400	400	400	400	0
Other	0	0	0	0	0	0	0	0	0	0	0
Total	2,547	0	27	2,520	420	420	420	420	420	420	*

FUNDING SCHEDULE (\$000)

G.O. Bonds	961	0	27	934	193	405	84	84	84	84	0
State Aid	1,586	0	0	1,586	227	15	336	336	336	336	0

ANNUAL OPERATING BUDGET IMPACT (\$000)

DESCRIPTION

This project provides funds to renovate County bridges that need repair and replacement work beyond routine maintenance and for emergency repairs to ensure that they continue operating as safe components of the County's transportation infrastructure. Renovation work involves: preliminary engineering, planning, project management, inspection, and construction. Construction is performed on several components of the bridge structures. Superstructure replacement items include bridge decking, support beams, beam bearing assemblies, expansion joints, and concrete beams. Substructure replacement items include concrete bridge abutments, backwalls, and wingwalls. Culvert repairs include concrete headwalls, structural steel plate pipe arch replacements, installation of concrete inverts, and placement of stream scour protection. Other renovation items of work include paving of bridge deck surfaces, bolted connection replacements, stone slope protection, reconstruction of approach roadway paving to bridge, concrete crack injection, deck joint material replacement, placement of concrete curtain walls for scour protection, and installation of traffic safety barriers. The bridge preservation aspect of this program is identified through the Biennial Bridge Inspection program. Bridge preservation work involves: cleaning and painting of steel bridges, surface re-coating, removal of existing paint system which may contain hazardous materials, containment of blast cleaning and waste paint particles, disposal of hazardous materials at a pre-approved disposal site as required by Maryland and Federal environmental regulations, repainting of the structure according to contract specifications, and inspection of the entire process to ensure compliance with environmental and contract requirements. A community outreach program is included in this project to inform the public of road closures and detour routes; provide adequate traffic control measures for road closures and lane shifts; and reduce community impacts, especially to school bus routes by performing work when schools are out of session.

Service Area

Countywide

Capacity

The highway vehicle capacities will remain the same.

Specific Data

There is currently a backlog of 77 bridges (based on the 1997 bridge inspection cycle) needing renovation to remain effective and safe components of the County highway system. The backlog of bridges will fluctuate from one inspection cycle to the next due to continuous deterioration, or because bridges may be renovated or replaced between inspections. The County has 118 steel girder and beam structures in the inventory, including long and short span bridges. The degree of specialized work required to preserve or restore the protective coatings to in-service bridges is beyond the scope of routine operations. Proper protective coating systems are an essential component of the bridge maintenance program to prevent long-term structural steel deterioration from occurring. The Biennial Bridge Inspection Program, a Federally mandated program, is the main resource used to obtain specific information and to identify deficient bridge elements requiring renovation.

Cost Change

Increase due to the addition of FY05-06 to this ongoing program.

STATUS

Various stages (from conceptual to operational).

OTHER

The scope and schedule have been expanded for FY01 to include bridge preservation work. Bridge Renovation work is coordinated with the routine maintenance performed by the Division of Highway Services. *The Expenditures for this program will continue indefinitely.

FISCAL NOTE

State Aid for this project has been reduced to an upset limit of \$227,000 per year. This new level of State funding is reflected in FY01-02. Future years will be adjusted based on State funding availability.

APPROPRIATION AND EXPENDITURE DATA

Date First Appropriation	FY97	(\$000)	2,100
Initial Cost Estimate			
First Cost Estimate			
Current Scope	FY99		3,129
Last FY's Cost Estimate			3,134
Present Cost Estimate			2,547
Appropriation Request	FY02		227
Supplemental			
Appropriation Request	FY01		0
Transfer			0
Cumulative Appropriation			2,353
Expenditures/			
Encumbrances			1,855
Unencumbered Balance			498
Partial Closeout Thru	FY99		1,566
New Partial Closeout	FY00		587
Total Partial Closeout			2,153

COORDINATION

MSHA
 Maryland Department of Natural Resources
 Montgomery County Department of Permitting Services
 M-NCPPC
 Montgomery County Division of Traffic and Parking Services
 The Executive asserts that this project conforms to the requirements of relevant local plans as required by the Maryland Economic Growth, Resource Protection and Planning Act.

MAP

